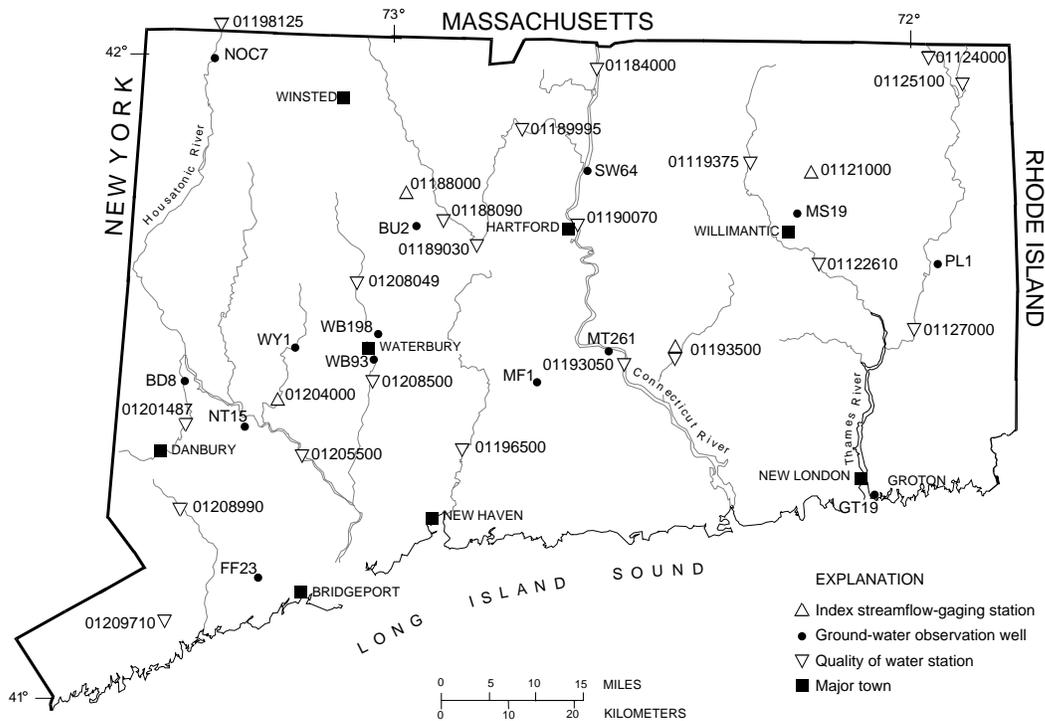


**U.S. Department of the Interior
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS
IN CONNECTICUT, AUGUST 2003**

The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.



DATA-COLLECTION SITES USED IN THIS REPORT

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; **phone (860) 291-6740**; fax (860) 291-6799; dc_ct@usgs.gov

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at <http://www.usgs.gov> or the Connecticut District home page at <http://ct.water.usgs.gov> For more information on all USGS reports and products (including maps, images, and computerized data), call **1-888-ASK-USGS**

INDEX TO INFORMATION

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

STREAMFLOW (measured in cubic feet per second) ➔ PROVISIONAL DATA ➔

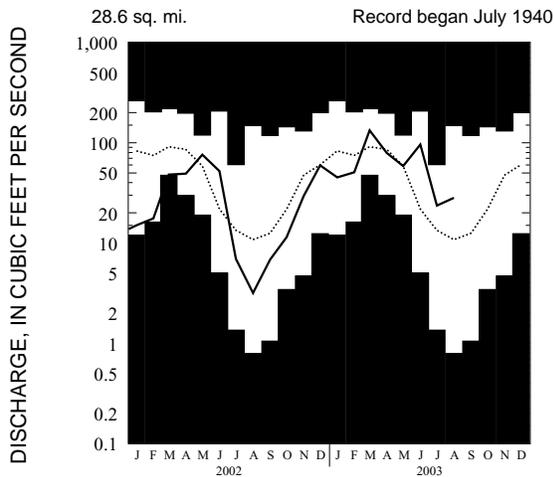
Streamflow across the State was in the normal to above-normal range. Flow at Burlington Brook (NW Connecticut) and Pomperaug River (SW Connecticut) rose to the above-normal range after being in the normal range for 1 month. Flow at Salmon River (SE Connecticut) remained in the normal range. Flow at Mount Hope River (NE Connecticut) remained in the above-normal range for the 3rd consecutive month. Across the State, mean streamflow for August averaged 220 percent of the August long-term medians.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	AUGUST 2003 MEAN	JULY 2003 MEAN	AUGUST 2002 MEAN	AUGUST MAXIMUM VALUE (year recorded)		AUGUST MINIMUM VALUE (year recorded)		AUGUST MEDIAN (1971-2000)
				Value	Year	Value	Year	
MT HOPE RIVER (01121000)	28.2	23.6	3.17	148	1955	0.79	1957	10.8
BURLINGTON (01188000)	7.62	3.94	1.28	36.0	1955	0.65	1999	3.42
SALMON RIVER (01193500)	50.8	56.9	18.9	357	1955	7.50	1957	46.2
POMPERAUG (01204000)	111	60.1	21.5	578	1955	5.90	1999	39.0

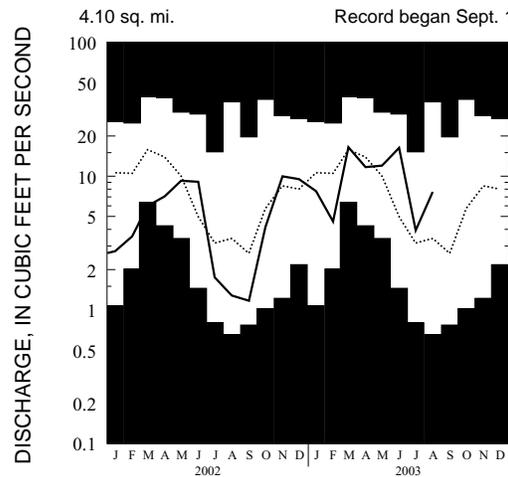
MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

Shaded areas on graphs show highest and lowest monthly mean discharge of record.
 Current record Median (1971-2000)

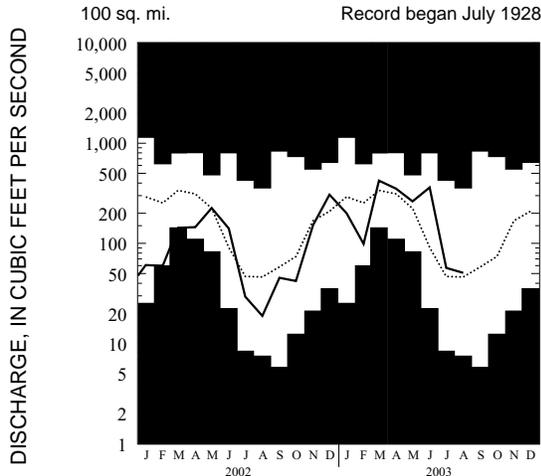
MOUNT HOPE RIVER NEAR WARRENVILLE



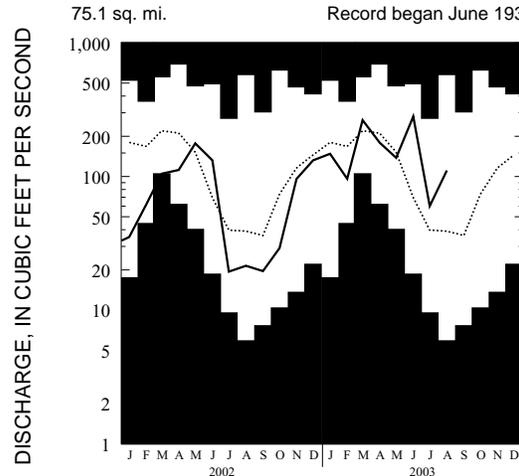
BURLINGTON BROOK NEAR BURLINGTON



SALMON RIVER NEAR EAST HAMPTON



POMPERAUG RIVER AT SOUTHBURY



CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT

← PROVISIONAL DATA →

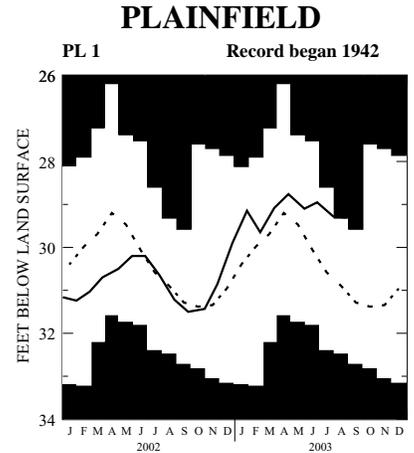
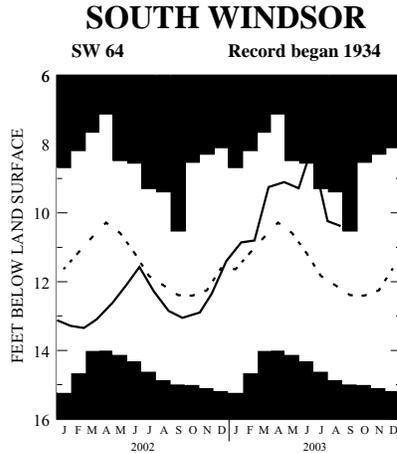
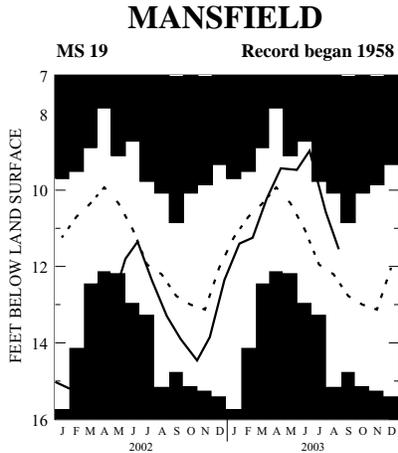
[Station locations shown on front page; --, not applicable; —, not available; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than “X” percent of the time from 1961-90; **bacteriological analysis** reconnaissance data enumerated using membrane filter method with immediate incubation; **col/100 mL**, colonies per 100 milliliters; **K**, results based on colony count outside the acceptable range (non-ideal colony count)]

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2003	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S/cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	E. COLI (COL/100 mL)
01119375 Willimantic R. at Merrow	8/14	63.7 / --	134	24.0	8.5 / 101	7.0	87 K	54
01122610 Shetucket R. at South Windham	8/20	200 / --	137	25.0	8.6 / 105	7.3	74	45
01124000 Quinebaug R. at Quinebaug	8/21	130 / 61	245	23.0	7.9 / 96	7.3	176	164
01125100 French R. at North Grosvenordale	8/21	98.9 / --	225	25.5	8.0 / 99	7.2	71 K	62
01127000 Quinebaug R. at Jewett City	8/20	153 / 94	144	24.5	7.8 / 93	7.3	84	81
01184000 Connecticut R. at Thompsonville	8/15	23,000 / --	115	25.0	7.8 / 94	7.5	--	--
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	8/25	41.6 / --	364	17.5	7.2 / 77	7.2	284 K	288
01189995 Farmington R. at Tariffville	8/25	649 / 65	155	20.5	8.3 / 93	7.4	68	42
01190070 Connecticut R. at Hartford	8/04	-- / --	159	24.5	7.2 / 86	7.2	1120	290
01193050 Connecticut R. at Middle Haddam	SITE NOT SAMPLED THIS MONTH							
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	8/18	260 / 29	282	21.5	7.9 / 89	7.6	4800	1630
01198125 Housatonic R. near Ashley Falls, MA	8/07	731 / --	351	23.5	6.8 / 82	8.0	333 K	204
01201487 Still R. at Rt. 7 at Brookfield Center	8/11	250 / --	315	22.5	7.0 / 81	7.3	6800 K	1600
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	8/12	230 / --	152	24.0	8.0 / 95	7.4	277	226
01208500 Naugatuck R. at Beacon Falls	8/13	413 / 44	219	23.5	8.2 / 96	7.5	460	320
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	8/14	30.8 / --	333	23.0	9.3 / 109	8.3	--	--

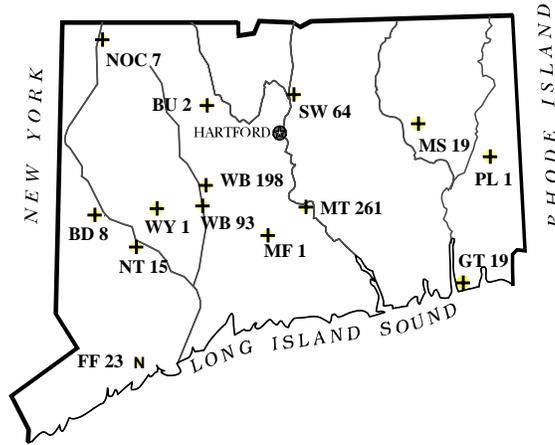
GROUND-WATER LEVELS

(Status of ground-water storage as indicated by water level changes in observation wells, as shown on hydrographs)

-  Shaded area on graphs show highest and lowest water levels of record through calendar year 2002.
-  Solid line shows current water levels.
-  Dashed line is monthly median for period of record through calendar year 2000.



MASSACHUSETTS



ABOVE NORMAL

Within the highest 25% of record for this month.



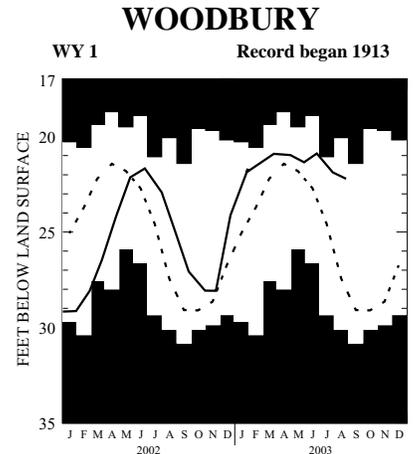
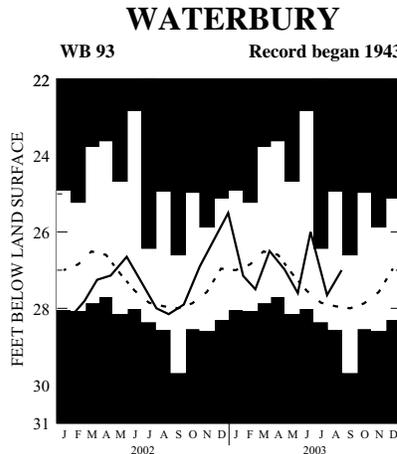
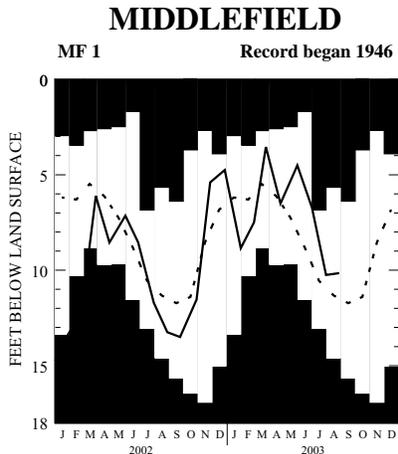
NORMAL RANGE

Between the highest and lowest 25% of record for this month.



BELOW NORMAL

Within the lowest 25% of record for this month.



GROUND-WATER LEVELS

Seven record high ground-water levels were recorded during August 2003.

Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest recorded during the month. In some wells, measurements are made more frequently than monthly—this could cause the column labeled AUGUST MIN or AUGUST MAX to have a value in 2003 that is not the same as the one reported in the column labeled AUGUST 2003, which is the last measurement for the month. Statistics (median) are based on period of record (through calendar year 2000). Ground-water-level data are collected by USGS personnel and individual observers.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YEAR RECORD BEGAN
	AUGUST 2003 (DATE)	JULY 2003	AUG 2002	AUGUST MAX (YR RECORDED)		AUGUST MIN (YR RECORDED)		AUG MEDIAN			
BD 8 (Brookfield)	30.12	25	30.25	32.10	29.49	1969	32.69	1995	31.13		1966
BU 2 (Burlington)	20.79	25	18.94	24.94	18.30	1969	29.94	1995	23.28		1946
BU 143 (Burlington)	8.22	25	6.82	9.67	7.17	2000	10.70	1999	9.33		1996
BU 144 (Burlington)	1.73	25	1.76	1.90	1.43	1998	1.90	2002	1.68		1996
CL 223 (Clinton)	7.64	27	6.71	10.37	3.96	1992	10.62	1993	8.69		1991
CL 224 (Clinton)	21.01	27	20.41	22.28	20.47	1992	22.34	1999	21.35		1991
CL 225 (Clinton)	6.71	27	6.56	10.33	3.80	1998	10.33	2002	7.38		1991
CO 335 (Colchester)	8.31	27	7.63	8.77	7.02	1989	9.02	1995	8.16		1986
CV 51 (Coventry)	5.12	26	4.45	6.46	4.90	1994	7.29	1999	6.57		1992
D 116 (Durham)	4.77	27	4.85	9.62	1.80	1991	10.12	1999	5.81		1986
D 117 (Durham)	11.78	27	12.03	13.85	9.26	1991	14.48	1987	12.58		1986
D 119 (Durham)	1.38	27	1.48	2.88	0.48	1991	3.56	1987	2.24		1986
D 120 (Durham)	2.88	27	2.98	3.88	2.08	1991	4.06	1995	3.29		1986
EL 82 (Ellington)	6.05	26	5.98	6.47	5.92	1994	6.56	1995	6.30		1987
EL 139 (Ellington)	27.59	26	25.07	DRY	25.64	1994	DRY	97/99/02	29.33		1993
EL 140 (Ellington)	18.41	26	14.94	21.07	15.39	1994	21.07	2002	19.12		1993
EW 133 (E. Windsor)	5.35	26	6.22	5.83	4.97	1990	5.93	1995	5.59		1986
EW 134 (E. Windsor)	50.45	26	50.32	51.95	49.36	1989	51.95	2002	50.75		1986
FF 23 (Fairfield)	8.32	28	8.37	8.55	7.21	1992	9.80	1999	8.33		1966
FF 30 (Fairfield)	6.33	28	5.94	9.12	3.25	2000	10.80	1995	8.37		1993
FF 31 (Fairfield)	10.92	28	10.38	13.78	7.58	1997	13.80	1995	9.56		1993
FF 32 (Fairfield)	8.20	28	7.46	11.29	6.15	2000	12.90	1995	11.06		1993
FF 33 (Fairfield)	5.81	28	5.70	6.93	5.32	2000	7.40	1995	6.31		1993
GR 328 (Granby)	13.33	25	9.70	15.41	12.18	1994	16.51	1999	14.09		1981
GR 329 (Granby)	6.15	25	4.55	10.48	6.15	2003	12.06	1999	9.86	>	1982
GR 330 (Granby)	2.98	25	2.98	3.38	2.75	2000	4.31	1983	3.94		1982
GR 331 (Granby)	10.07	25	10.31	12.49	10.07	2003	13.09	1999	11.11	>	1983
GT 19 (Groton)	16.10	31	15.10	DRY	14.19	1989	DRY	99/02	16.40		1958
GW 21 (Greenwich)	26.11	27	24.96	NA	NA	NA	NA	NA	NA		2002
GW-22 (Greenwich)	5.90	27	5.65	NA	NA	NA	NA	NA	NA		2002
GW-23 (Greenwich)	32.05	27	34.24	NA	NA	NA	NA	NA	NA		2002
HM 445 (Hamden)	24.90	28	24.41	29.61	20.68	2000	32.66	1993	27.88		1988
HM 446 (Hamden)	3.79	28	3.70	4.28	3.56	1997	4.44	1995	4.09		1993
HM 447 (Hamden)	3.25	28	3.06	3.94	2.92	2000	4.11	1995	3.82		1993
HM 448 (Hamden)	13.75	28	13.57	14.66	13.31	2000	14.94	1995	14.02		1993
HM 449 (Hamden)	17.60	28	18.96	19.82	15.03	1997	21.47	1993	20.72		1993
HM 450 (Hamden)	13.60	28	13.76	DRY	12.70	1997	DRY	2002	13.38		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE-CORD	YEAR RECORD BEGAN
	AUGUST 2003 (DATE)		JULY 2003	AUG 2002	AUGUST MAX (YR RECORDED)		AUGUST MIN (YR RECORDED)		AUG MEDIAN		
MB 32 (Marlborough)	7.38	27	5.67	8.32	2.95	1989	10.19	1993	7.75		1986
MB 35 (Marlborough)	14.15	27	11.77	15.52	12.23	2000	16.30	1999	15.59		1993
MB 36 (Marlborough)	7.41	27	6.45	8.88	4.87	2000	9.28	1995	8.48		1993
MF 1 (Middlefield)	10.15	27	10.25	13.25	5.66	1992	14.59	1965	11.32		1946
MS 19 (Mansfield)	11.55	26	10.57	13.30	10.40	1989	15.14	1966	12.31		1958
MS 44 (Mansfield)	3.94	26	4.48	7.01	3.09	1994	9.55	1993	6.28		1982
MS 45 (Mansfield)	12.48	26	12.14	14.64	11.80	1994	14.64	2002	13.38		1987
MS 46 (Mansfield)	13.62	26	13.26	15.45	13.62	2003	15.45	2002	14.41	>	1987
MS 74 (Mansfield)	5.60	26	3.98	8.60	4.94	1994	9.80	1999	8.32		1992
MS 75 (Mansfield)	8.99	26	7.36	12.77	8.99	2003	16.26	1995	14.20	>	1992
MS 76 (Mansfield)	29.35	26	29.75	34.05	29.35	2003	35.82	1995	34.28	>	1992
MS 77 (Mansfield)	5.77	26	4.12	8.70	4.41	1994	9.82	1993	8.28		1993
MS 80 (Mansfield)	16.92	26	15.90	NA	NA	NA	NA	NA	NA		2003
MT 261 (Middletown)	21.70	27	20.78	23.26	20.53	89/98	25.59	1987	22.51		1956
NHV 201 (North Haven)	15.45	28	15.58	17.43	14.64	1977	17.85	1999	16.22		1975
NOC 7 (North Canaan)	9.67	31	9.80	10.44	9.02	1990	11.16	1995	9.95		1958
NSN 77 (N. Stonington)	12.77	27	12.17	15.45	12.77	2003	16.55	1993	15.02	>	1991
NSN 78 (N. Stonington)	5.30	27	4.88	7.20	3.93	1992	7.20	2002	5.52		1991
NT 15 (Newtown)	6.26	28	5.71	7.54	4.97	1994	10.20	1981	7.36		1966
PL 1 (Plainfield)	29.31	26	29.28	31.22	29.31	2003	32.46	1966	30.97	>	1942
SB 30 (Southbury)	19.06	25	18.66	20.67	18.44	2000	22.18	1999	19.90		1979
SB 39 (Southbury)	7.30	25	7.32	7.99	5.67	1994	8.36	1995	7.39		1991
SB 41 (Southbury)	47.70	25	49.33	53.20	46.35	1992	55.40	1999	49.55		1991
SB 42 (Southbury)	15.57	25	16.50	21.72	13.47	1994	22.87	1999	16.26		1993
SC 19 (Scotland)	8.17	26	7.00	9.95	6.67	1994	11.05	1993	7.68		1983
SC 20 (Scotland)	8.84	26	7.80	9.50	7.79	1984	10.40	1993	8.93		1983
SC 21 (Scotland)	1.07	26	0.52	1.45	+1.22	1998	1.78	1995	1.23		1983
SC 22 (Scotland)	12.96	26	12.49	13.37	12.80	1998	13.90	1993	13.30		1984
SC 23 (Scotland)	2.54	26	2.39	2.74	1.33	1993	3.28	1998	2.68		1983
SM 7 (Salem)	11.91	27	10.30	12.85	9.60	1989	13.41	1999	12.72		1979
SW 64 (S. Windsor)	10.38	26	10.24	12.85	9.39	1989	14.85	1966	12.18		1934
SY 15 (Salisbury)	13.25	25	12.67	14.35	12.28	2000	15.53	1991	14.43		1966
SY 23 (Salisbury)	6.94	25	8.22	12.90	5.25	1994	16.43	1993	9.36		1987
SY 24 (Salisbury)	11.51	25	11.98	16.70	10.41	1994	17.61	1966	13.51		1986
WB 93 (Waterbury)	27.00	28	27.65	28.15	24.92	1955	28.54	1966	27.90		1943
WB 198 (Waterbury)	13.62	28	13.95	19.53	11.08	1955	20.68	1999	15.88		1943
WY 1 (Woodbury)	22.21	25	21.88	25.02	20.06	1955	32.90	1914	28.06		1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month; <<, new record low for period of record; *, median not calculated--number shown is mean; NA, not available; OBS, obstructed; +, water level above ground surface; --, not measured.